

# Batuhan Usuel

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## Address:

1010 W University Ave  
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## Education

### University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science + Econ  
GPA: 4.0

January 2022 - Present  
Expected Graduation: May 2024

### Purdue University | West Lafayette, IN

Bachelor of Science in Computer Science  
GPA: 3.56 Major GPA: 3.70

August 2020 – December 2021

## Experience

### CME Group | Chicago, IL

May 2022 - Aug 2022

- Wrote an application in Java for real time testing of their matching engine.
- Replaced periodic manual checks for errors with an automated system.
- Pinpoints exact message where mistakes started occurring.
- Deployed Kafka instance to listen to engine and relay messages for performance and reliability reasons.

## Projects

### Algorithmic Support and Resistance | Python

September 2019

- Coded a project to find reversal points on stock prices.
- Detected reversal points by finding clusters of local min and max points.
- Retrieved stock price history through Yahoo Finance, displayed charts with reversal points marked.
- Received 110+ stars and 20+ forks on GitHub.

### Trading Automator Bot | Java

March 2018 – August 2018

- Created a GUI Application to trade cryptocurrencies.
- Has features such as Arbitrage, basic market making, back-testing and live trading simple TA Strategies, dollar-cost averaging, trailing stops, and more.
- Supports dozens of different exchanges using the Xchange library.

### Arbitrage Bot | Python

August 2017

- Developed a trading bot for cryptocurrencies that took advantage of pricing discrepancies between exchanges.
- Connected to exchanges via their APIs, fetching prices and checking if there were profitable trades available.
- Automatically executed trades when profitable ones were detected.
- Open sourced on GitHub, received 140+ stars and 60+ forks.

## Activities

### HackerOne White Hat Hacking

October 2019

- Found a security vulnerability in semrush.com, a website that receives over 9 million visits per month.
- Allowed an attacker to redirect a user to their own domain after successful logins, leading to phishing attacks.
- Was compensated through their bug bounty program for reporting this vulnerability.

### Rose Hulman Operation Catapult | Terre Haute, IN

July 2019

- Participated in an engineering summer camp.
- Built a small-scale hovercraft which was remotely operable using a standard RC controller.
- Won 1st place against multiple other teams in both speed and maneuverability races.

### TiE Young Entrepreneurs | Boston, MA

September 2018 – May 2019

- Took part in a 7-month long entrepreneurship program supported by a group of advisors and mentors.
- Landed on a business plan to aggregate information from college admission pages to sell to high schools.
- Used the python packages beautifulsoup and selenium to collect data and built an MVP.
- Pitched our business in front of a group of 100 audience members and 5 judges, won the audience award.

## Skills

**Programming:** Java, Python, C++, C

**Tools & Packages:** Git, JavaFX, Numpy, Pandas, Selenium, Scikit-learn, Android Studio, Maven

**Languages:** English (native), Turkish (native), Spanish (elementary).